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A Gordon Conference on Optical Signal Processing and Holography was held on 26-30 June 1995 at Plymouth State College, New Hampshire. There were 89 participants.

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1995 GORDON RESEARCH CONFERENCE ON OPTICAL SIGNAL PROCESSING AND HOLOGRAPHY

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The Gordon Research Conference on Optical Signal Processing and Holography was held from 26 - 30 June 1995 at Plymouth State College, Plymouth, New Hampshire. The conference had eighty-nine participants, including fifteen students and twenty-four participants from eight foreign countries. There were attendees from universities, industries, government laboratories, and a medical institute. The attendance of most students and younger faculty was supported by grants.

The Gordon Research Conferences promote discussions and the free exchange of ideas at research frontiers. Scientists with common interests in a particular field come together for a week of intense discussion and examination of the most advanced aspects of their field of interest. This conference brought together people performing research in: non conventional imaging, including incoherent holography, imaging with integrated optical and digital systems, super resolution, interferometric imaging, and imaging with very short pulses; real-time 3-dimensional displays using holography and auto stereoscopic displays; and holographic data storage. There were fourteen invited oral presentations in 4 1/2 days, and thirty-five poster presentations in two evenings. The schedule was arranged to leave 20 - 25 minutes after each oral presentation. This assured that the discussions, the most important part of the Gordon meetings, would not be slighted. Additional informal discussions after lunch were prevalent. The poster sessions, unlike the poster sessions at many meetings, were attended by all, and discussions went on into the night and the next day. (Posters were left up for two days.)

New results were presented on interferometric and holographic imaging, and new mathematical tools and techniques were presented for describing imaging systems. The extended discussions were very useful, and several people commented that it was the best discussion and interaction that they had had at a Gordon Conference. Many also commented at the meeting and afterward that they considered the meeting to have been a great success.